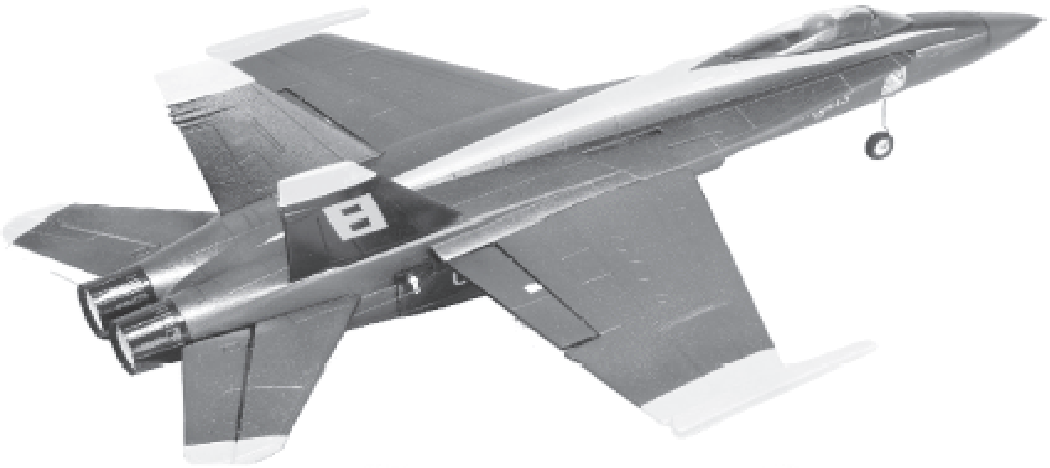
F/A-18C

R/C Model Air Plane

Owners Handbook



Redcat

Introduction

Thank you for purchasing a Redcat F/A-18C model R/C aircraft! Headquartered in Phoenix, AZ; Redcat Racing is proud to have become the premier source for quality Gas, Nitro and Electric powered RC products. We at Redcat Racing proudly stand behind our full range of 1/5, 1/8, 1/10 & 1/24 scale RC Cars, Buggies, Trucks, and Planes. Our website and customer support hotline are conveniently located at the bottom of each page throughout your owners handbook.

Your F/A-18C is a high performance R/C aircraft featuring a powerful ducted-fan brushless motor and ESC combo. Combined with a 4-channel 2.4ghz transmitter and 11.1V LiPo battery, the F/A-18C is capable of both high and low speed flights. The high performance and simple flight controls makes this a perfect aircraft for the entry-level flyer.

The F/A-18C has been carefully engineered to provide reliable, quality flight while requiring only basic assembly skills. Please take time to familiarize yourself with this owners handbook as it contains information critical to the proper assembly, set-up and operation of your airplane.

Pay specific attention to instructions marked with this information icon. Following these instructions will ensure you get the best performance out of your Redcat purchase.

This owners handbook is designed to be a total package that includes assembly, set-up and operating procedures, warranty information, parts listings, replacement part order forms, and general notes pages where you can record specific set-up notes about your aircraft for future reference.

We at Redcat Racing again thank you for your purchase, and welcome you into the Redcat family! We strive to provide you with some of the industry's best products, aftermarket parts, and service support.

Safety Warnings

Redcat wishes to ensure you receive the most enjoyment from your purchase possible. This aircraft is not a toy, and requires proper training and inspection for safe operation. The warnings listed below should be followed at all times while operating your aircraft!

Redcat Racing is not responsible for any injury or damage that may be caused by the improper use or operation of this aircraft or charging system.

This aircraft is not a toy, and not intended to be operated by children under the age of 14. Children under to age of 14 should only operate this aircraft under the close supervision of a responsible adult!

If this is your 1st aircraft, Redcat recommends that you have been properly trained before attempting to fly this aircraft. Without training, crash damage is likely to occur while trying to operate your aircraft!

- Do not operate your aircraft indoors. Do not operate outdoors if any of the following conditions exist: Strong Winds, Rain, or Thunderstorms.

- Do not fly near airports, power lines, industrial areas, or anywhere where electronic interference may be present.

- Do not fly in crowded areas as injury to others may occur.

- Complete a pre-flight check to ensure both the aircraft and transmitter/receiver are functioning properly. ***Failure to do so may result in loss of control and damage to the aircraft.***

- Do not attempt to catch the aircraft while it is in flight.

- Use only genuine Redcat Racing parts to replace any damaged parts on your aircraft. A parts list and order form is included in the back of your owners handbook.

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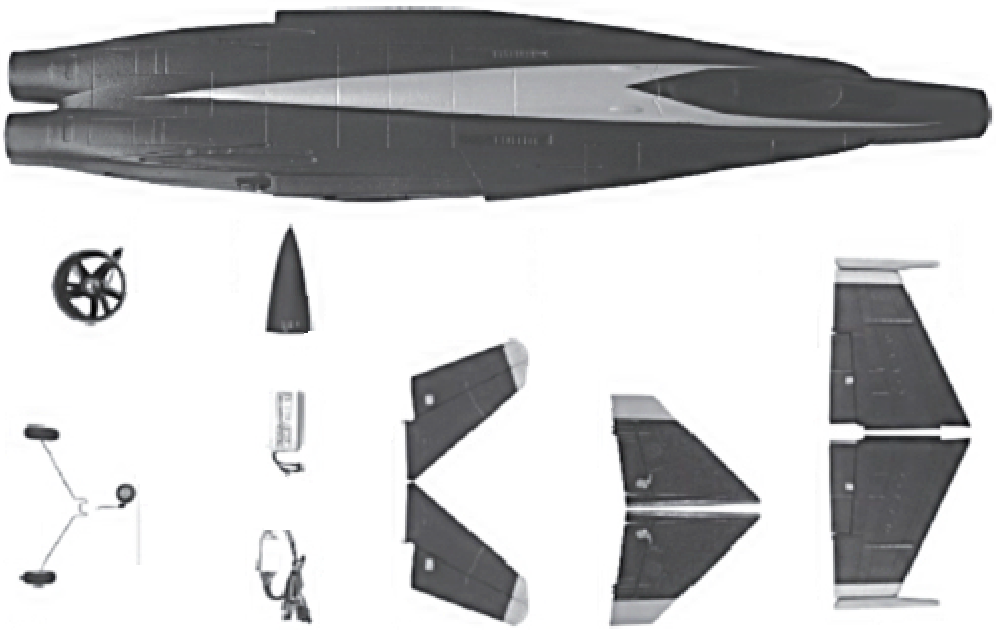
Aircraft Specifications

Your Redcat Racing F/A-18C comes packed with features typically found only on more expensive competitor models! Below are the general specifications regarding your aircraft.

Wingspan	686mm
Length	1032mm
Height	357mm
Flying Weight	640g
Thrust	>450g
Motor	4300kV Brushless Motor
Ducted Fan	EDF64x1
Battery	11.1V LiPo
Radio System	4-Channel 2.4ghz

Parts Included

Your Redcat Racing F/A-18C comes complete with every pictured below. This consists of the following: Fuselage, Main Wing Set, Vertical and Horizontal Stabilizers, Main Landing Gear, Canopy, Radio System, Battery, Charger, Hardware, Assembly Glue and Owners Handbook



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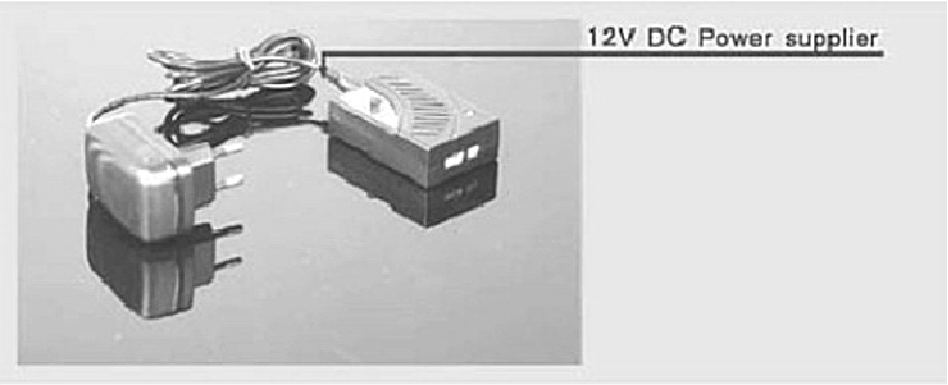
Understanding & Charging the Battery

Your Redcat Racing F/A-18C comes with a powerful 3 cell, 11.1V LiPo battery pack and balance charger. Special care should be taken when charging your battery to ensure safe and optimal battery life.

Charger Specifications & Operation

Specifications:
Input voltage: DC 10V~15V
Output voltage: DC 7.4V&11.1V (to 2 or 3 cell Li-Po battery)
Charging current: 0.3A~1.0A (can be continuously adjusted)

Indicator state:
Green: Charge complete & no battery
Red: Charging
Flash: Drip current charging
The batteries are inspected separately. When the voltage reaches 4.20V, the charging process stops.



Connect the battery to charger per its interface mark. The LED becomes red, which means charging is on the way. Adjust the current among 0.3A~1.0A. In order to prolong battery' life-span, we recommend to charge them under low current if you have enough time.
When LED flashing, the charger will enter the stage of drip current charging. The LED turns green when fully charged, and the battery will be used at any time.

Charger & Battery Safety Precautions

Your Redcat Racing P-51 comes with a powerful 3 cell, 11.1V LiPo battery pack and balance charger. Special care should be taken when charging your battery to ensure safe and optimal battery life. Pay special attention to these safety precautions listed below. *Failure to do so could result to damage to the battery, charger, or personal property!*

Precautions

- Do not insert a foreign object into the cooling hole of the charger while the power is on. Damage to the charger may result.

-Keep charger and LiPo battery away from open flames or flammable materials.

-This charger is only designed to charge LiPo batteries!

-While in operation, keep battery and charger away from children.

-Do not leave battery or charger unattended while in operation.

-Do not charge battery if it is hot.

-Stop charging immediately if battery becomes hot, or charger power light turns off.

-Do not attempt to disassemble battery pack.

-Do not short-circuit battery pack.

-Inspect battery pack for swelling or damage after each use. Do not use battery if either exist.

-Do not charge battery in temperatures under 0c or when above 45c.

-If battery is punctured, special care should be taken not to get contents on skin or clothes.

-Do not charge battery using input voltage over 15V

-Do not leave battery or charger unattended while in use.

-Adults should supervise charging when in use by an operator under the age of 14.

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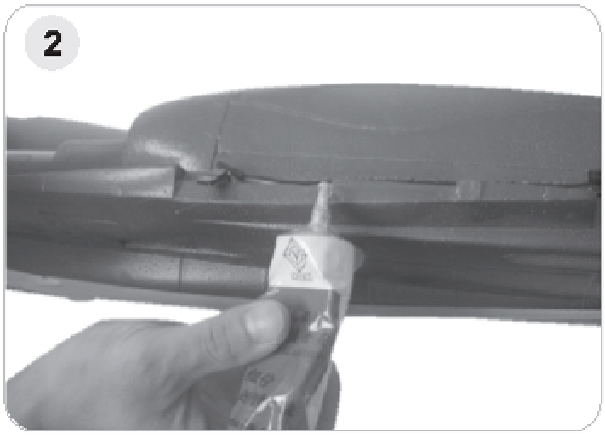
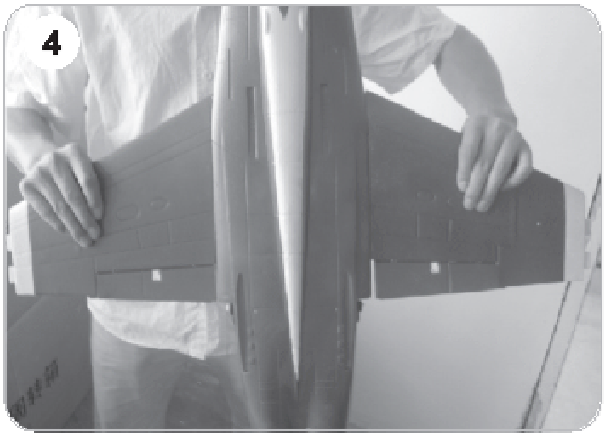
Aircraft Assembly

Minor assembly of your F/A-18C aircraft is required. Please pay close attention to the following assembly steps to obtain maximum performance from your aircraft while flying.

Step 1: Installation of the Main Wings. Add glue to the edges of each main wing where it will attach to the plane fuselage.





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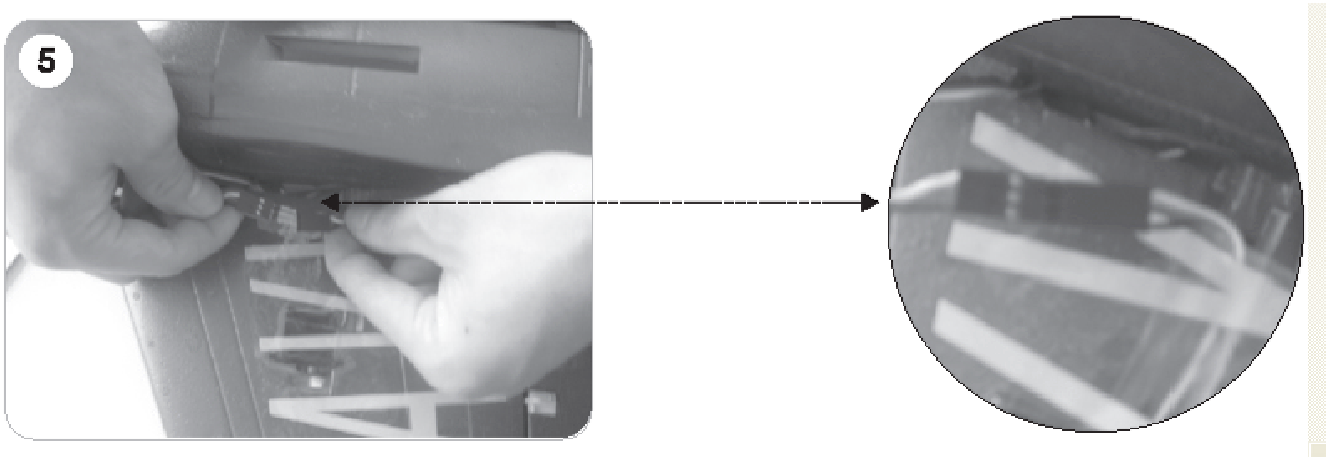
Step 2: Installation of servo connectors *Note: When connecting servo connectors, ensure wire colors match up. Refer to photo below for proper orientation.*



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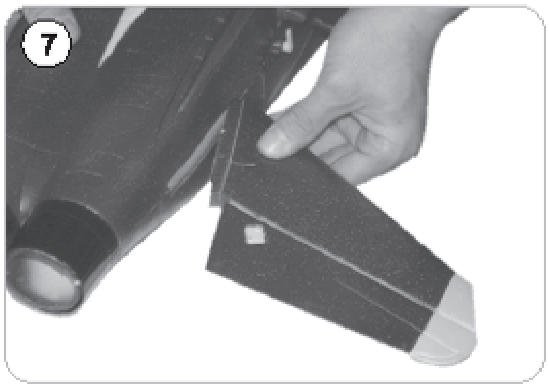
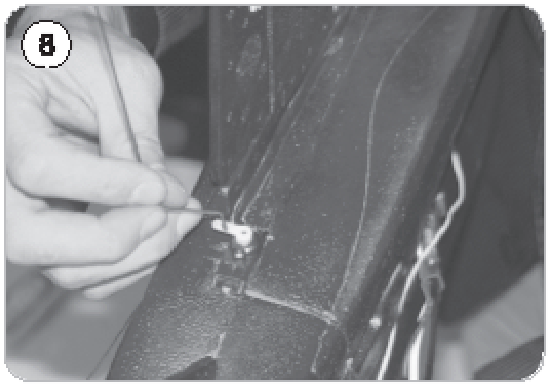
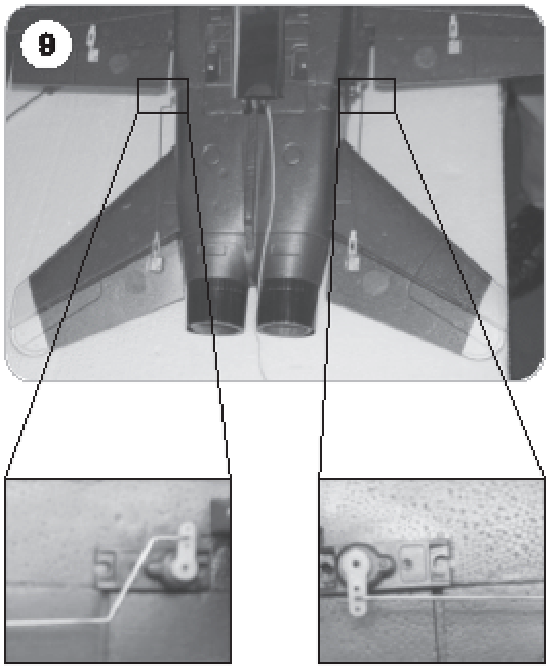
Step 3: Installation of Horizontal Stabilizers. Add glue to the edges of each horizontal stabilizer where they will attach to the plane fuselage. *Connect control linkages to each servo. The linkage clevis should connect with the middle mounting hole on each servo horn.*







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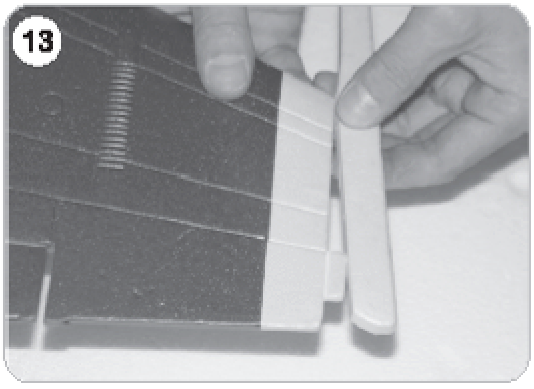
Step 4: Installation of Vertical Stabilizers. Add glue to the edges of vertical stabilizer where they will attach to the plane fuselage.

Step 5: Installation of Missile Sidepods. Add glue to the edges of each missile sidepod where they will attach to the main wing tips.



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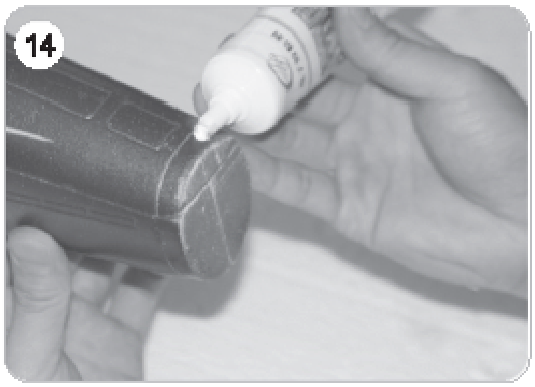
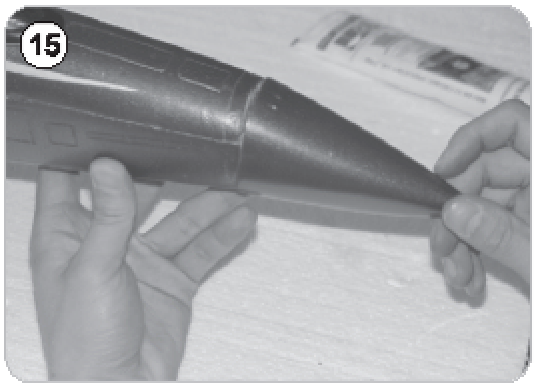
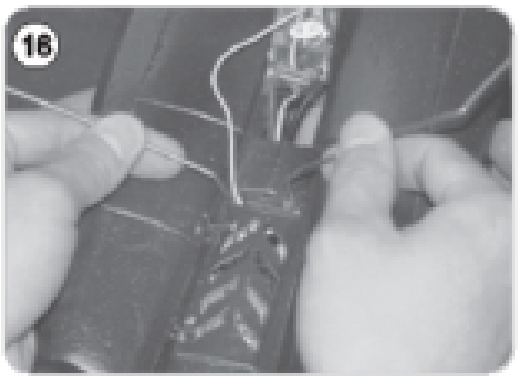
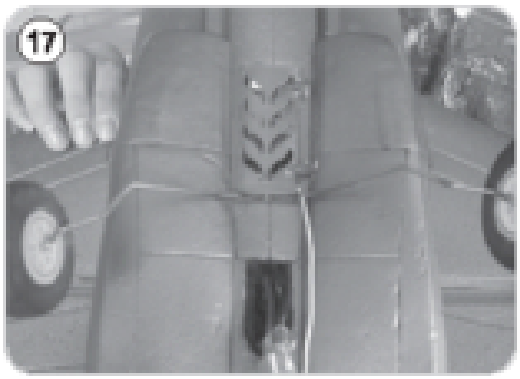
Step 6: Installation of Nose Cone. Add glue to the edges of nose cone where it will attach to the plane fuselage.





Step 7: Installation of Landing Gear. Install the steel wire from the landing gear into the grooves on the underside of the plane fuselage. **Note:** If the landing gear becomes bent, you can reform these by bending them back in shape by hand.





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Step 8: Installation of Main Landing Gear. Install the steel wire from the main landing gear into the grooves on the underside of the plane fuselage. **Note:** If the landing gear becomes bent, you can reform these by bending them back in shape by hand.

Step 9: Completed Assembly. Once fully assembled, the left and right side main wings should be horizontal when looking at aircraft directly from the front.

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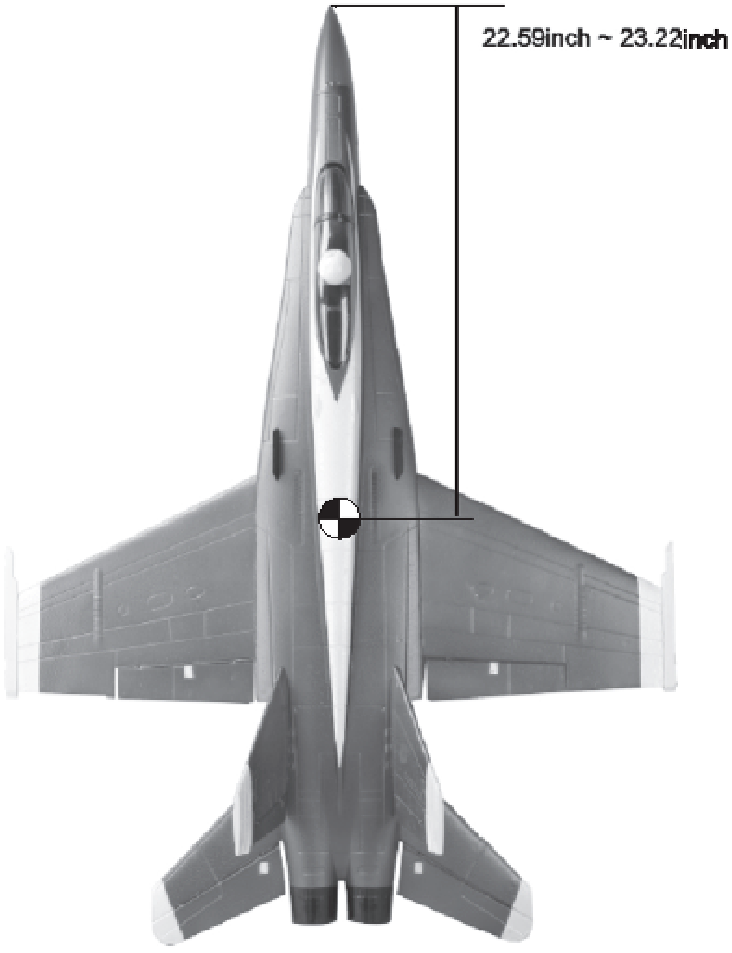
Step 10: Checking the Center of Gravity (CoG). The CoG is the point where your aircraft will balance itself. This is critical to ensuring proper performance during flight.

For your initial flight, it is recommended that the CoG be located near the forward edge of the main wings. After you become more familiar with your aircraft, you can begin to move the CoG rearward.

If necessary, you can adjust the CoG by shifting the receiver and/or battery towards the front or rear of the aircraft. You can also add weight to the nose or tail of the aircraft.

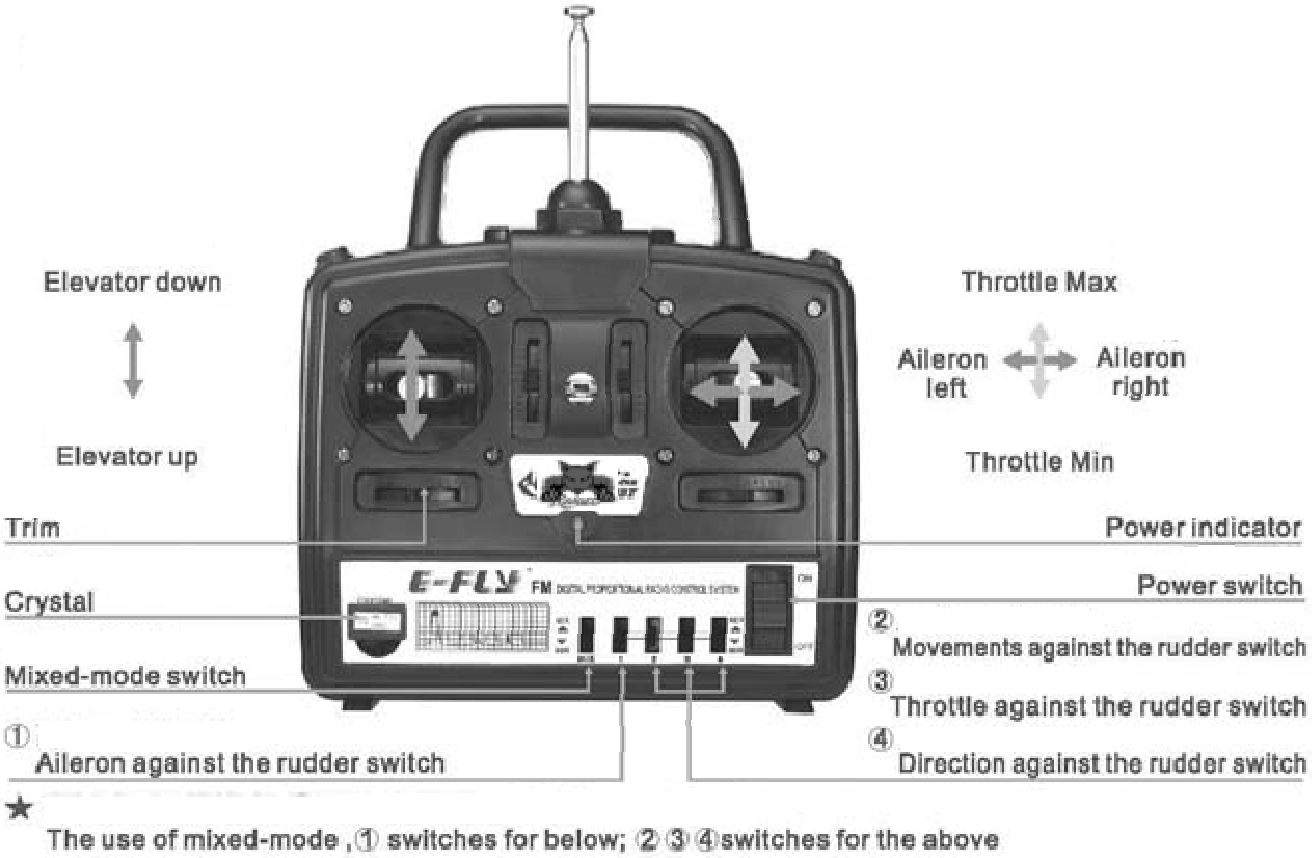


Understanding the Radio System

Your Redcat Racing F/A-18C comes from the factory with a high-quality 2.4ghz radio transmitter and receiver. Since these are your only source of control over the aircraft, it's important to take time to review and understand their function. Your radio transmitter has two separate modes which are pictured below. *Pay specific attention to the control stick functions outlined below!*

Tip: Collapse your transmitter antenna by pulling from the bottom of the antenna. Pushing down on the antenna top can bend or break it, limiting the range of your transmitter. *Never cut the length of your receiver antenna! Doing so will severely reduce your transmitter's range.*

Control Mode 1:



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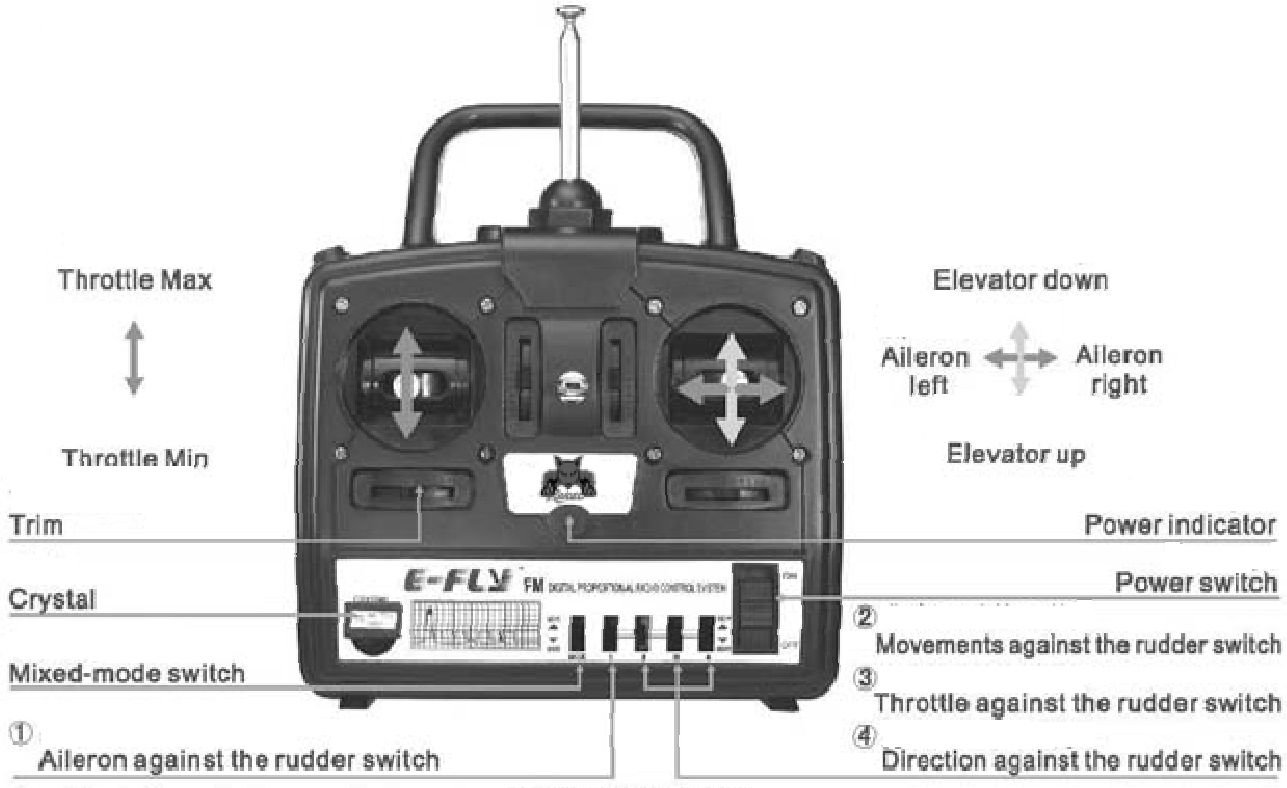
Control Mode 2:



★ The use of mixed-mode ,① switches for below; ② ③ ④switches for the above

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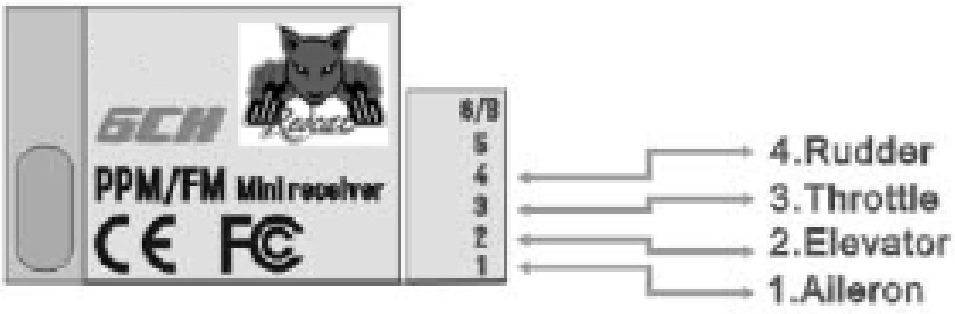
Receiver Controls:

To ensure proper operation of your aircraft, ensure that all servo connections into your receiver are in accordance with the diagram below. *Failure to do so may result in unexpected control and potential damage to the aircraft.*



Electronic Speed Controller (ESC) :

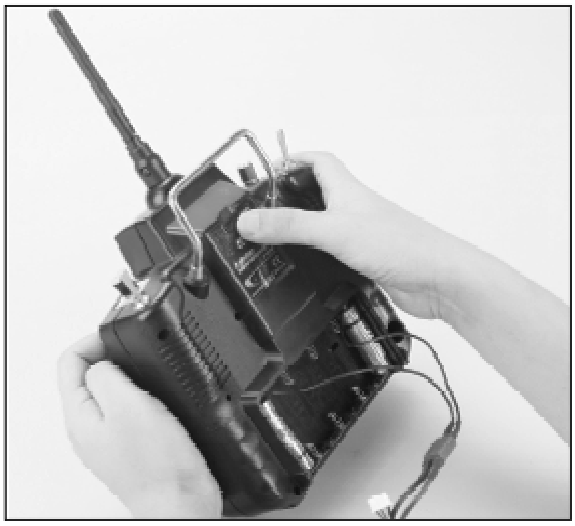
Always turn the power on to your radio transmitter before turning power on aircraft. Failure to do so may result in unexpected movement and damage to the aircraft or its surroundings.

Once powered up, keep the throttle at its lowest setting for 1 second. After that, the engine should respond to changes in throttle inputs. This is a safety feature of your aircraft. **Note:** If the motor does not respond, reset the ESC by disconnecting and reconnecting the aircraft battery.

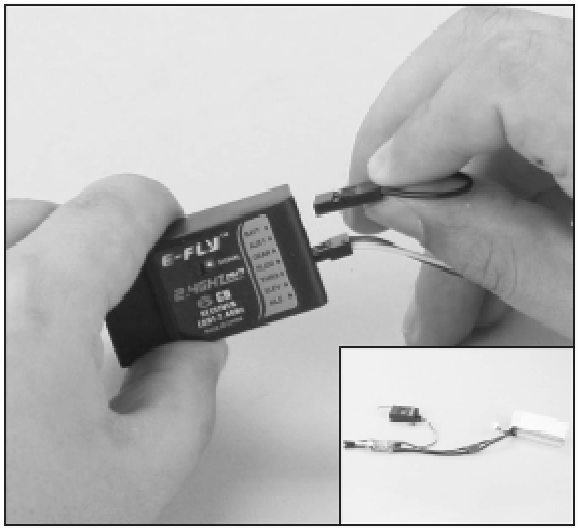
When aircraft battery power loses strength, the ESC will cut off power to the motor, while still providing full control of the rubber and ailerons. ***When this occurs, land aircraft immediately or damage may result!***

Binding the Transmitter & Receiver:

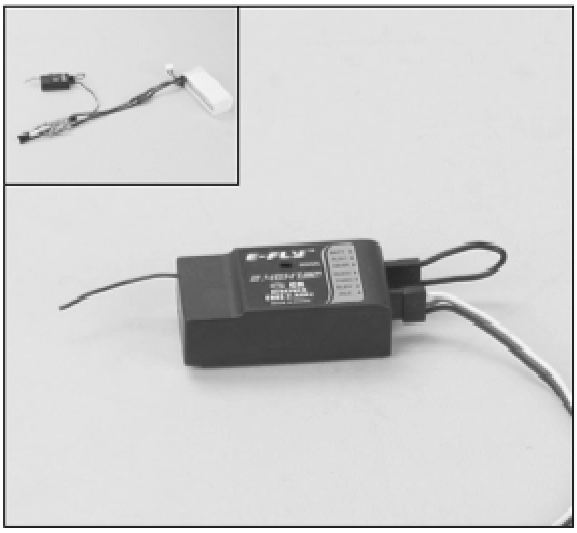
To ensure proper operation of your aircraft, your radio transmitter and aircraft receiver are bound. These should arrive from the factory, but if you experience problems during your pre-flight check, you may need to follow these instructions to re-bind your receiver. *Never cut the length of your receiver antenna! Doing so will severely reduce your transmitter's range.*



1. Press the switch for frequency bind, then turn on the transmitter's power.



2. Connect the ESC to receiver for electricity supply, wihch results to the indicator light glitter. And then plug the short-circuit plug into the Receiver in the position of BATT.



3. If the frequency bind is successful, the indicator light will extinguish.

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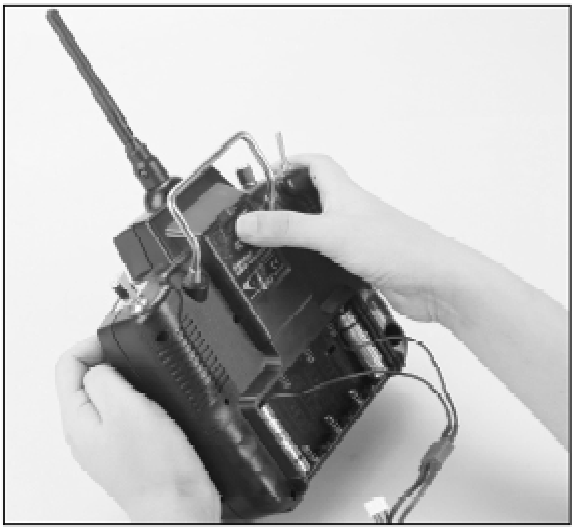
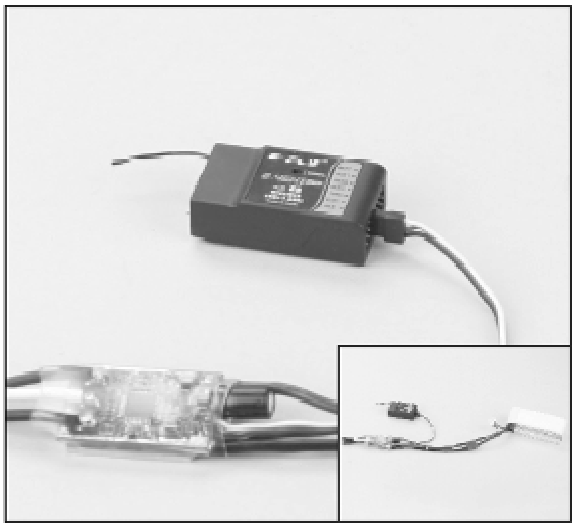


4. Press frequency bind switch again to get it rebound. The transmitter get into working mode.



5. The indicator light turns bright again seconds after pulling out the short-circuit plug, which means that the radio system can work normally now.

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Learning to Fly

Your Redcat Racing aircraft is intended for 1st time flyers as well as for experienced operators. By reading and understanding these simple instructions, you will learn to fly your R/C aircraft in no time!

Understanding how an Aircraft Flies:

By understanding how an aircraft flies you will have greater control over your R/C aircraft. When the aircraft moves forward, the shape of the main wing allows air to provide lift, letting your plane gain altitude. If your aircraft moves forward too slowly, the wing can not create enough lift and your plane will stall. Your ducted fan or propeller creates the power needed to move the plane forward. As long as your aircraft is moving forward, the wing is creating lift.

Maneuvering while in Flight:

Your aircraft is able to make a turn by tilting in the direction of the turn. In order to turn your aircraft, you tilt the plane with the aileron or rudder controls in the direction you want to plane to turn. To make your aircraft move up or down, give the intended command using the elevator control stick. *Note that as the airplane rises it moves slower. Too slow and you will stall your aircraft.*

Turning your R/C aircraft is much different than controlling a R/C car or truck! When you tilt the aircraft's wing in the direction you want it to turn, the plane will continue to tilt as long as the wing is angled in that direction. To stop the plane from turning, move the control stick in the opposite direction of the turn so that the wings will level out. If you let go of the control stick completely, the aircraft should automatically return to normal, level flight.

General Flying Recommendations:

Launching your Aircraft: If you hand-launch your plane, make sure it's thrown straight ahead and into the direction of the wind. If taking off from a runway, the aircraft needs to build up speed before you provide up elevator controls. Once off the ground, climb at a slow pace to ensure your aircraft does not stall. *Climb too steeply and your aircraft may crash.*

Turns:

Don't attempt turning your aircraft until it is high enough off the ground. If the aircraft begins to stall, input down elevator controls to gain control. Remember, when the aircraft is flying towards you the transmitter stick controls operate the aircraft in the opposite directions!

Landing:

Avoid turning when the aircraft is low. Do not try to land in a specific spot, rather let the plane glide slowly towards the ground. *Flying in a large, open field is always recommended!*

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Troubleshooting

The following is a general list of troubleshooting tips you may encounter while operating your aircraft. This is meant as a guide only. If you are encountering problems not described below, contact your local Redcat dealer. You can also contact Redcat customer support directly through the phone number listed at the bottom of each page in your owners handbook.

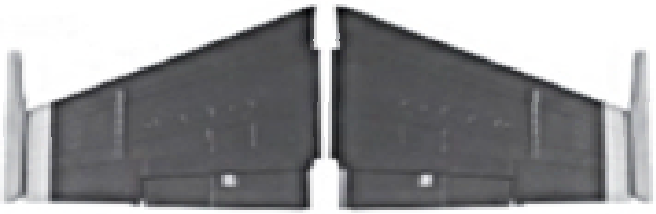
Troubleshooting Guide	
Problem	**Solution**
Aircraft does not operate	Check battery strength and installation in both transmitter and receiver.
	Check installation of servos into receiver
Aircraft "glitches" during pre-flight check	Check receiver and crystal installation
	Ensure no one else is operating another vehicle on the same radio frequency
	Check battery strength and installation in both transmitter and receiver.
Aircraft does not fly correctly	Check installation of servos into receiver
	Adjust trim switches on radio transmitter for either elevator or rudder
	Reinstall the Main Wing Assembly
	Inspect aircraft for damage to elevator/rudder linkages
	Double-check proper location for Center of Gravity (CoG)
	Check battery strength. Servos will not operate with too low a battery strength.
Aircraft does not gain altitude	Check battery strength. Aircraft will not operate with too low a battery strength.
	Adjust elevator trim switch on transmitter.
Operating Range is Short	Ensure transmitter antenna is fully extended and not damaged.
	Inspect reveiver antenna for damage
	Check battery strength and installation in both transmitter and receiver.

General Notes

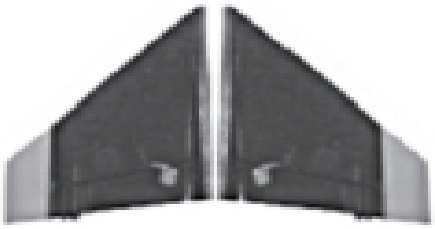
General Notes

Replacement Parts List

5O061: Main Fuselage



5O031: Main Wing Set



5O051: Vertical Stabilizers

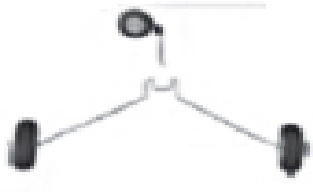
5O041: Horizontal Stabilizers

5O071:
Nose Cone

5O101:
LiPo Battery

33013:
Brushless ESC

5O091:
Ducted Fan



5O081: Landing Gear Set

WWW.REDCATRACING.COM
602-454-6445

Replacement Parts Order Form

Mail Completed Form and Payment to:

Redcat Racing
23 West Watkins Street
Phoenix, AZ 85003

Note: *Redcat Racing encourages our customers to purchase Redcat replacement parts through our large dealer network whenever possible, as they may offer these parts at a lower cost than purchasing direct from Redcat. Redcat offers this mail-in replacement parts order form as a service to our customers who do not have access to a local Redcat Authorized Service Center or online Redcat dealer.*

Uncertain of Parts? Contact us at 602-454-6445

Name:	
Mailing Address:	
City:	
State/Province:	
Zip/Country Code:	
Daytime Phone:	
E-mail: *(Required for International orders)*	

Payment Type: (Circle One)	Money Order	Visa	Mastercard	Discover	**No personal checks accepted.**
Printed Name on Credit/Debit Card:					
Credit/Debit Card Number:		_ _ _ _ - _ _ _ _ - _ _ _ _ - _ _ _ _			**Validation Number** *(On Back of Card)*
Credit/Debit Card Expiration Date:		_ _ - _ _ _ _			
Credit/Debit Card Validation # (3 Digits)		_ _ _			
Cardholder's Signature:					

P/N	Qty	Description	Price Ea.	Total

Note: *Allow 3-4 weeks for delivery. This includes the time it takes for Redcat to receive, process, fill, and return your order. All shipping will be done through either UPS or the US Postal Service.*

Note: *Redcat Racing will provide a refund for the purchase price of item(s) that may be out of stock.*

Total	
AZ Residents - Add 6.3% Sales Tax to Total	
Shipping & Handling (US Only)	
Shipping & Handling (Canada)	**Contact**
Total Order	

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Zip/Country Code:	
Daytime Phone:	
E-mail: *(Required for International orders)*	

Payment Type: (Circle One)	Money Order	Visa	Mastercard	Discover	**No personal checks accepted.**

Printed Name on Credit/Debit Card:		
Credit/Debit Card Number:	_ _ _ _ - _ _ _ _ - _ _ _ _ - _ _ _ _	**Validation Number** *(On Back of Card)*
Credit/Debit Card Expiration Date:	_ _ - _ _ _ _	
Credit/Debit Card Validation # (3 Digits)	_ _ _	
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